# Use Attainability Analysis

for

WBID 0079 Little Fabius River

Submitted by Tetra Tech, Inc

To Missouri Department of Natural Resources Water Protection Program

2005 JUL 14 PM 2: 43

# Data Sheet A - Water Body Identification

WATER PROTECTION PROGRAM

	MAILINITIO
Water Body Name: (from USGS 7.5' quad)  L. Fabius R.	
8-digit HUC: 071(0003	
Missouri WBID #: 00 79	
County: Knox	
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd)  Downstream Coordinates:	
	7805,92.00973
Discharger Facility Name(s): Hearthand Commenty WITF	· · · · · · · · · · · · · · · · · · ·
Discharger Permit Number(s): NA	
Number of Sites Evaluated: (1 (2 were alternate 5/405)	
Name of Surveyor and Telephone Number: Spanner Prendezest 703-3	185-600
Organization: Tetra Tech	
Position: Scient 181	
I, the undersigned, hereby affirm to the best of my knowledge, that all inform datasheet is true and accurate.	ation reported on this UAA
Signed: Sha Prendex Date: 7-8-	05
J.M. 1/8/55	

L. Fabius River Scale 1 : 200,000 1" = 3.16 mi DELORME © 2002 DeLorme. Topo USA ®. Data copyright of content owner. www.delorme.com mi km 1.5°E

#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

		· · · · · · · · · · · · · · · · · · ·			escription: #647	1+		
	Missouri WBID #:	0079		Site Location D	escription:			
	Site GPS Coordinates: -	-GPS not worl	cina		af #648			
	Date & Time: 7-08	7-05 5:30 A	7	Facility Name:	Heartland Com	nunity WhIF		
	Personnel: $\leq \rho$	/R		Permit Number	Permit Number: NA			
	Current Weather Conditi	ons: Het Sings	$\sim$	Weather Condit	ions for Past 7 days: Su	nny		
	Photo Ids: Upstream:	Down	nstream:	59 Othe	er: NA			
Us	ses Observed*:							
•	☐ Swimming	☐ Skin diving		SCUBA diving	☐ Tubing	☐ Water skiing		
	☐ Wind surfing	☐ Kayaking		Boating	☐ Wading	Rafting		
	☐ Hunting	☐ Trapping		Fishing	None of the above	☐ Other:		
					-documentation of evidence			
	rrounding Condition us of interest.)	S*: (Mark all that pr	romote o	impede recreational t	uses. Attach photos of evide	nce or unusual		
	☐ City/county parks	☐ Playgrounds	□ MDC	conservation lands	☐ Urban areas	☐ Campgrounds		
	☐ Boating accesses	☐ State parks	☐ Natio	onal forests	☐ Nature trails	☐ Stairs/walkway		
	☐ No trespass sign	☐ Fence	☐ Steep	slopes	Other: Foreste	d with		
Ev	idence of Human Use	÷*:			agricultie ne	arky		
	Roads	☐ Foot paths/print	ts [	Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sites		Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
	☐ Other:				*			

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

CATLIF   Cam Morphology:   Upstream View Physical Dimensions:   Riffle   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   Avg. Depth (ft):   Max. Depth (ft):   Gravel   Stimated (ft³/sec):   Max. Depth (ft):   Gravel   Stimated (ft³/sec):   Max. Depth (ft):   Gravel   Gr	ge Two – Data S	heet B for V	VBID #	<u>7_</u> :			
Upstream View Physical Dimensions:    Riffle   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Pool   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Pool   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Plow   Present?   Yes   No   No			647 Llt				
Riffle   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   J.			mensions:				
Pool   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):				Avg. Dep	th (ft):	Max. Depth (ft)	):
Flow   Present?   Yes   No   No   Wees 1976   Estimated (ft3/sec):   Downstream View Physical Dimensions:   Riffle   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Run   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Pool   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Flow   Present?   Yes   No   Wees 100   Wees 100   Wees 100     Dostrate*: (These values should add up to 100%.)   Ook   Cobble   Ook   Gravel   Wees 100   Wees 100   Wees 100   Wees 100     Ook   Cobble   Ook   Gravel   Wees 100   Wees 100   Wees 100   Wees 100     Ook   Cobble   Ook   Gravel   Wees 100   Wees 100   Wees 100   Wees 100     Ook   Cobble   Ook   Wees 100   Wees 100   Wees 100   Wees 100     Ook   Cobble   Ook   Ook   Wees 100   Wees 100   Wees 100   Wees 100     Ook   Cobble   Ook   Ook   Ook   Ook   Ook   Ook     Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook     Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook     Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook     Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook     Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook     Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook     Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook   Ook     Ook	Run Width	(ft): 15°		Avg. Dep	th (ft):	Max. Depth (ft)	: 2,5
Downstream View Physical Dimensions:    Riffle Width (ft):	□ Pool Width	(ft):	Length (ft):	Avg. Dep	th (ft):	Max. Depth (ft)	:
Downstream View Physical Dimensions:   Riffle   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Run   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Pool   Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Flow   Present?   Yes   No   West   Estimated (ft³/sec):     Ostrate*: (These values should add up to 100%.)   Co	☐ Flow Preser	t? □ Yes	□ No Nst mea	Estimated	(ft³/sec):		
Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):   Pool Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   Pool Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   Pool Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   Pool Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   Pool Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   Pool Width (ft):   P	Downstream Vi	ew Physical					
Run Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):   Flow   Present?   Yes   No   Max. Depth (ft):   Max. Depth (ft):   Present?   Yes   No   Max. Depth (ft):   Max			· · · · · · · · · · · · · · · · · · ·	Avg. Dep	th (ft):	Max. Depth (ft)	:
□ Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Flow Present? □ Yes □ No □ □ □ Estimated (ft³/sec):    Strate*: (These values should add up to 100%.)   Gravel	Run Width	(ft): \O	Length (ft):	Avg. Dep	th (ft): / ) 5	Max. Depth (ft)	: \.5
Strate*: (These values should add up to 100%.)  40 % Cobble	□ Pool Width	(ft):	Length (ft):	Avg. Dep		Max. Depth (ft)	
Strate*: (These values should add up to 100%.)  40 % Cobble	☐ Flow Preser	t?	DNO VUY	Neavic Estimated	(ft³/sec):		
Color:   Clear   Green   Gray   Milky   Other:   Surface Deposit:   Sludge   Solids   Fine sediments   Solid   None   Other:   Surface Deposit:   Oil   Scum   Foam   None   Other:   Other:   Other:   Surface Deposit:   Oil   Scum   Foam   None   Other:	ostroto*e (III						
uatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)    O q   Q q e				% Sand	% Silt	⟨¹ % Mud/Clay	% Bedrock
Some   Some   South   Walks		1 10 %			ic	)	70 200100
Sowne   faut   Gray   Walky   Chemical   None   Other:  Color:   Clear   Green   Gray   Milky   Other:   Other:    Bottom Deposit:   Sludge   Solids   Fine sediments   None   Other:    Surface Deposit:   Oil   Scum   Foam   None   Other:    + 4444   + 4444   Other:   Other:   Other:      Surface Deposit:   Oil   Scum   Foam   None   Other:   O	uatic Vegetatio	n*: (note amou	ant of vegetation or	algal growth at the a	ssessment site)		
Atter Characteristics*: (Mark all that apply.)  Odor: Sewage Musky Chemical None Other:  Color: Clear Green Gray Milky Other: Other:  Bottom Deposit: Sludge Solids Fine sediments None Other:  Surface Deposit: Oil Scum Foam None Other:	10% alage	en calable	·				
Ater Characteristics*: (Mark all that apply.)  Odor: Sewage Musky Chemical None Other:  Color: Green Gray Milky Other: Other:  Bottom Deposit: Sludge Solids Fine sediments None Other:  Surface Deposit: Oil Scum Foam None Other:	Some alout	7 (1 / 1 / 7	a salder				
Odor: Sewage Musky Chemical None Other:  Color: Clear Green Gray Milky Other: Gray W  Bottom Deposit: Sludge Solids Fine sediments None Other:  Surface Deposit: Oil Scum Foam None Other:		7			· · · · · · · · · · · · · · · · · · ·		
Color: Clear Green Gray Milky Other: Gray Mone Gother: Surface Deposit: Oil Scum Foam None Other:		stics*: (Mark	all that apply.)				
Bottom Deposit: Sludge Solids Fine sediments None Other:  Surface Deposit: Oil Scum Foam None Other:		☐ Sewage	☐ Musky	☐ Chemical	None	<del></del>	
Surface Deposit: Oil Scum   Foam   None   Other:		☐ Clear	☑ Green	☐ Gray	☐ Milky	Other: 500	w W
thin thin				☐ Fine sediment	s 🛱 None	☐ Other:	· · · · · · · · · · · · · · · · · · ·
	Surface Deposit:			☐ Foam	□ None	☐ Other:	
mments: Please attach additional comments (including information from interviews) to this form.		. ,		<i>.</i>			$x_{i} = x_{i}$
	mments: Please	attach addit	ional comments	(including inform	ation from inter	views) to this form	n.
	prehensive underst	anding of water	r conditions. Conse	quently, this informa	tion is not intended	l to directly influence	a
aprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a	ision on the recreat	on use analysis	s but may point to co	onditions that need fu	rther analysis or th	at effect another use.	
his information is not to be used solely for removal of a recreational use designation but rather is to provide a more apprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a ision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.	he undersioned	horoby off	irm to the best (	of my knowledge	that all inform	nation reported c	n this TIA A
aprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a ision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.	tasheet is true a	, nereby am nd accurate	irm to the best (	n my knowieuge	, mat an imorn	nation reported o	ni tins CAA
herehensive understanding of water conditions. Consequently, this information is not intended to directly influence a ision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  he undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA	0/		· 1 <	7	261-	and the second	
aprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a	ned: <u>She</u>	K	enha	Date:	1/8/09		
herehensive understanding of water conditions. Consequently, this information is not intended to directly influence a ision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA tasheet is true and accurate.	ganization:	in Toh	Ine	Positi	on: Scienti	$f_{c}$	
prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a ision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA tasheet is true and accurate.  Date:  Date:			J	//			
prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a ision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA tasheet is true and accurate.  Date:  Date:			V/12. 1/8	165			





#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #:	5079		S	Site Location Description: bridge = 390			
	Site GPS Coordinates: 34	7.98294, 91.976	08		#648			
	Date & Time: 7-8-0	5.00	P~	F	acility Name:	Heartland Can	munits Wentt-	
	Personnel: 5P	VR	ľ .	P	ermit Number:	NA		
	Current Weather Condition	ons: Sugar Ha	<del>T</del>	v	Veather Condition	ons for Past 7 days:		
	Photo Ids: Upstream: 4	Down	nstrea	m: 57	Other	: NA		
Us	es Observed*:							
		☐ Skin diving		□ SCUB.	A diving	☐ Tubing	☐ Water skiing	
	☐ Wind surfing	☐ Kayaking	٠.,	☐ Boatin	g	☐ Wading	☐ Rafting	
	☐ Hunting	☐ Trapping		☐ Fishing		None of the above	☐ Other:	
	Describe: (include numbe	er of individuals recre	eating	g, frequency	y of use, photo-	documentation of evidence	of recreational uses, etc.)	
	rrounding Condition	s*: (Mark all that pr	omote	e or imped	e recreational us	es. Attach photos of evider	nce or unusual	
iten	ns of interest.)							
	☐ City/county parks	☐ Playgrounds	ΠМ	DC conser	vation lands	☐ Urban areas	☐ Campgrounds	
	☐ Boating accesses	☐ State parks	□ Na	ational fore	ests	☐ Nature trails	☐ Stairs/walkway	
	☐ No trespass sign	☐ Fence	□ Ste	eep slopes		Other: forest a	nd agriculture	
Ev	idence of Human Use	·*:						
	□ Roads	☐ Foot paths/print	s	□ Dock	/platform	☐ Livestock Watering	□ RV / ATV Tracks	
	☐ Rope swings	☐ Camping Sites		☐ Fire p	oit/ring	☐ NPDES Discharge	☐ Fishing Tackle	
	☐ Other:	Λ.	low	(				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

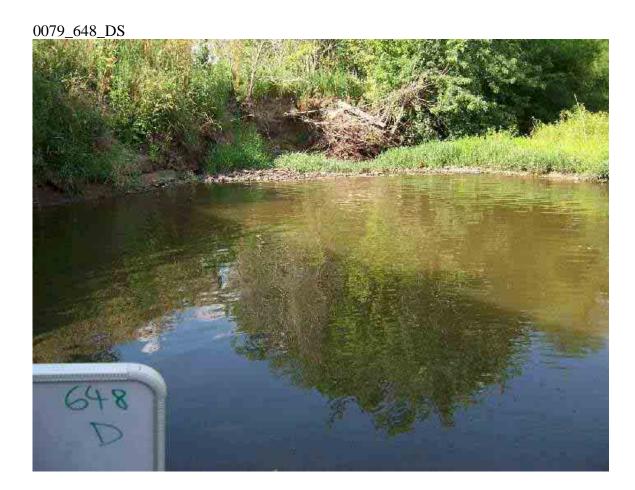
<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

ige Two – Data	Sheet B for V	VBID # 0679 :		
ream Morpholo Upstream View	00	#64	8	
	th (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run Wide	th (ft): 20	Length (ft): DD	Avg. Depth (ft): 25	Max. Depth (ft): 3,51
□ Pool Wide	th (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Flow Prese	ent?	ĽXNo	Estimated (ft <sup>3</sup> /sec):	
Downstream V	iew Physical	Dimensions:		
	th (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
	th (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Pool Wide	th (ft): 35	Length (ft): 2	Avg. Depth (ft):	Max. Depth (ft): 25
Flow Prese	ent?	₩ No	Estimated (ft³/sec):	
ostrate*: (Thes % Cobb	ole %	Gravel 90 % S	and % Silt rowth at the assessment site)	% Mud/Clay
nter Character	istics*: (Mark		you can see h	Vater 13 murky
Odor:	☐ Sewage		Chemical None	☐ Other:
Color:	□ Clear	∏ Green □	Gray 🏹 Milky	Other: 6/3hn/green
Bottom Deposit:	☐ Sludge	□ Solids □ 1	Fine sediments None	☐ Other:
Surface Deposit:	□ Oil	□ Scum □ 1	Foam None	☐ Other:
nments: Pleas s information is r brehensive undersion on the recrea e undersigne	e attach additing to be used solution to be used solution use analysis d, hereby affi	onal comments (included by for removal of a recreat conditions. Consequently but may point to conditions rm to the best of my	ding information from inte- tional use designation but rather t, this information is not intende as that need further analysis or the	rviews) to this form.  is to provide a more d to directly influence a
tasheet is true	and accurate		~ ~ .	21
ned: N	an tre	-lyc	Date: 7~~~~	<u> </u>
ganization:	TetaTo	eh	Position:	test
	l	1. g. 3/8/05		

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#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 00	79			escription: Rt 385 A	10 15G		
Site GPS Coordinates:	39.97693, 92.03	762	#64	9	•		
Date & Time: 7-8	05 4:35	- P	Facility Name:	Heartland Commu	n't WATE		
Personnel: SP VA		V	Permit Number:	Permit Number: NA			
Current Weather Condition	ons: Hot sun	N-7	Weather Conditi	ions for Past 7 days: Hot	Shan.		
Photo Ids: Upstream:	- 1	vnstream:	56 Other	r: NA			
ses Observed*:	sk thrown an	a, sho	whin photo	56			
☐ Swimming	☐ Skin diving		SCUBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking		Boating	☐ Wading	☐ Rafting		
☐ Hunting	☐ Trapping		ishing	None of the above	☐ Other:		
Describe: (include number	er of individuals rec	reating, fre	quency of use, photo-	documentation of evidence	of recreational uses, etc.)		
urrounding Condition	s*: (Mark all that p	promote or	impede recreational u	ses. Attach photos of evider	nce or unusual		
☐ City/county parks	☐ Playgrounds	☐ MDC	conservation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks	☐ Nation	nal forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence	☐ Steep	slopes	Other: Agricult	thre land.		
vidence of Human Us	e*:			being cleared			
Roads	☐ Foot paths/prir	nts 🗆	Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites		Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
☐ Other:		•					

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

ge Two – Data S	heet B for V	<b>VBID</b> # <u>0079</u>	•		***	
ream Morpholog	ru/•	#649				
Upstream View		mensions:				
☐ Riffle Width		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Run Width	(ft): 15	Length (ft): 50	Avg. Depth	(ft): 0,5	Max. Depth (ft):	1.0
□ Pool Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Flow Presen	t? □ Yes	No No	Estimated (	ft <sup>3</sup> /sec):		
Do X7:	D)	<b>D</b> :				
Downstream Vi				(6)	N D 4 (0)	
□ Riffle Width		Length (ft):	Avg. Depth		Max. Depth (ft):	
Run Width		Length (ft): 50	Avg. Depth	() , \(\alpha\)	Max. Depth (ft):	0.35
□ Pool Width	(ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	
Flow Presen	t? ☐ Yes	No.	Estimated (	ft³/sec):	·	
bstrate*: (These % Cobble	%		Sand growth at the ass	% Silt	% Mud/Clay	% Bedrocl
ater Characteris	tics*: (Mark	all that apply.)				
Odor:	☐ Sewage	☐ Musky ☐	Chemical	None	☐ Other:	
Color:	Clear	☐ Green ☐	Gray	☐ Milky	□ Other: Lawn	154
Bottom Deposit:	□ Sludge	□ Solids □	Fine sediments	(None	☐ Other:	
Surface Deposit:	□ Oil	□ Scum □	Foam	None	☐ Other:	
nis information is no aprehensive understation on the recreation	t to be used sol anding of water on use analysis	onal comments (included) on the conditions. Consequent but may point to condition to the best of my	eational use designly, this informations that need furth	nation but rather in is not intended ther analysis or the	is to provide a more to directly influence a at effect another use.	
tasheet is true a			, <b>ge</b> , .			
gned:		ander 1	Date:_	7-8-05		
ganization:	Tetra	Took	Positio	n: <u> </u>	A X	
		M.D. 2/8/	or the second			

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#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #:	) 79		Site Location	Description: # 650			
Site GPS Coordinates:	40.02542				·		
Date & Time: 7-8-0	5 7:01	PL	Facility Name	" Hearthand Com	unity WWTF		
Personnel: SP YR			Permit Numbe		2		
Current Weather Condition	ons: Surry ho	+	Weather Conditions for Past 7 days: Sun het				
Photo Ids: Upstream: 2		nstream: 5	Ot	her: NA	7		
Trash Uses Observed*:	shown is	n pheter	51 45	2			
☐ Swimming	☐ Skin diving	□ sct	JBA diving	□ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	☐ Boa	ting	□ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish	ing	None of the above	☐ Other:		
Describe: (include numbe	er of individuals reco	reating, freque	ency of use, pho	to-documentation of evidence	of recreational uses, etc.)		
Trash in s	stream (a	animel	Caree 85	<b>,</b>			
					· · · · · · · · · · · · · · · · · · ·		
Surrounding Condition tems of interest.)	s*: (Mark all that p	romote or imp	oede recreationa	l uses. Attach photos of evide	nce or unusual		
☐ City/county parks	☐ Playgrounds	☐ MDC con	servation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence	☐ Steep slop	oes	Other: Forest			
Evidence of Human Use	e*:			1	•		
□ Roads	☐ Foot paths/prin	its D	ock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites	□ Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
Dother: Trash	dunped	d	site				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Mor	phology:	r WBID # <u>0079</u> :		
	View Physical			
Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft): 20	Length (ft): 57)	Avg. Depth (ft): 0.5	Max. Depth (ft): 0.75
□ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Flow	Present?	es 💆 No	Estimated (ft <sup>3</sup> /sec):	
Downstre	am View Physic	al Dimensions:		
☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
□ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Pool	Width (ft):	Length (ft): 20	Avg. Depth (ft): 0,25	Max. Depth (ft): ()
Flow	Present?	es 💢 No	Estimated (ft³/sec):	
Vater Chara	grass grown  acteristics*: (Ma		deround in 1771	covered covered
Odor:	☐ Sewage		Chemical None	☐ Other:
Color:	☐ Clear	☐ Green ☐	Gray	Other: Lower Flat
Bottom Dep	oosit:   Sludge	□ Solids □	Fine sediments None	☐ Other:
Surface Dep	posit: 🗆 Oil	Scum File	Foam Sime   None	☐ Other:
omments: 1	riease attach add	itional comments (inclu	iding information from interv	news) to this form.
omprehensive undersion on the r	inderstanding of warecreation use analysigned, hereby a crue and accura	ter conditions. Consequently sis but may point to condition ffirm to the best of my	national use designation but rather is y, this information is not intended in that need further analysis or that knowledge, that all inform  Date: 7-8-65	to directly influence a







#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#:	0079		Site Locati	Site Location Description: # 651 alt			
Site GPS Coordinates	" GPS not wa	stemo		201	) in yestream	4650	
Date & Time: 7-9	5-05 3:20	الم ر	Facility Na	Facility Name: Heartland Community WhIF			
Personnel: 5p	YR	/	Permit Nu	nber:	NA	/	
Current Weather Con	ditions: Sunnyh	t	Weather C	onditio	ons for Past 7 days: $\int_{\mathcal{U}}$	ing but	
Photo Ids: Upstream:	: 54 Bov	vnstream	: 53	Other:			
Uses Observed*:							
☐ Swimming	☐ Skin diving		☐ SCUBA diving		☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking		☐ Boating		☐ Wading	☐ Rafting	
☐ Hunting	☐ Trapping		] Fishing		None of the above	☐ Other:	
Describe: (include nu	mber of individuals rec	reating,	frequency of use, p	hoto-d	ocumentation of evidence	of recreational uses, etc.)	
·							
	· .						
Surrounding Condit	ions*: (Mark all that i	oromote	or impede recreation	nal us	es. Attach photos of evider	ice or unusual	
tems of interest.)			or impede recreation	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	os. Titabli photos of ovider	or unusual	
☐ City/county parks	☐ Playgrounds	□мп	OC conservation lar	ıds	☐ Urban areas	☐ Campgrounds	
☐ Boating accesses	☐ State parks	☐ Nat	tional forests		☐ Nature trails	☐ Stairs/walkway	
☐ No trespass sign	☐ Fence	☐ Stee	ep slopes		Other: Fovost		
Evidence of Human	Use*:			·			
☐ Roads	☐ Foot paths/prin	nts	☐ Dock/platform		☐ Livestock Watering	□ RV / ATV Tracks	
☐ Rope swings	☐ Camping Sites	3	☐ Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle	
☐ Other:							
					1		

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

age Two – Da	ata Sheet	B for V	VBID # 0079	<b>:</b>			• .
ream Morph	ากไกซง•		651				
Upstream V	-	sical Dir	nensions:				
□ Riffle V	Vidth (ft):	,	Length (ft):	Avg. Depth	(ft): 2.1274/05	Max. Depth (ft):	
À Run V	Vidth (ft):	10	Length (ft): 2	Avg. Depth	(ft): 🔞 \	Max. Depth (ft):	2
□ Pool V	Vidth (ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Flow P	resent?	□ Yes	№ No	Estimated (f	t³/sec):		
) Ownstrean	n View P	hysical ]	Dimensions:				
	Vidth (ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Run V	Vidth (ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Pool V	Vidth (ft):	15	Length (ft): 5	Avg. Depth	(ft): \ . \	Max. Depth (ft):	3
/ □ Flow P	resent?	☐ Yes	No No	Estimated (f	t <sup>3</sup> /sec):		
					-		
	hese value		dd up to 100%.) Gravel 50	% Sand	% Silt   50	% Mud/Clay	% Bedrock
.7/8/05	1		Glaver	70 Dana	70 0110 1 70	70 17144 0149	70 2001001
			nt of vegetation or al		essment site)		
down stick		ic conci	r of algae	-100%			
iter Charac	teristics	*: (Mark a	all that apply.)				
Odor:		Sewage	☐ Musky	☐ Chemical	None	☐ Other:	
Color:		Clear	☑ Green	☐ Gray	☐ Milky	Other: Sou	1
Bottom Depo	sit:	Sludge		☐ Fine sediments	☑ None	☐ Other:	
Surface Depo	sit:	Oil	Scum / Scum	□ Foam	☐ None	☐ Other:	
nments: Pl	ease attac	ch addition	onal comments (in	icluding informat	ion from intervi	ews) to this form	•
			ely for removal of a re				
			conditions. Consequently but may point to conditions.				
			45 4b - b - 4 - 6		h = 4 = 11 in former	tion homoward or	thia TIAA
asheet is tr			rm to the best of	my knowledge, t	nat an intorma	ition reported of	i illis UAA
A		0	1	<u> </u>	2/8/15		
ned: <u>///</u>	m-	tien	dezel	Date:	.1001		<del></del>
ganization:_	18+12	N39/	Znc	Position	n: Scienti	157	
	1 10	2/1	, ,				
	11/1	1/8/0	r				



0079\_651\_DS





#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #:	079			escription: #652			
	Site GPS Coordinates: 4	0.1377 92.3070	9	Road 170	Road 170, off 846			
	Date & Time: 7-8-05			Facility Name:	Facility Name: Year land Communty Wutt			
	Personnel: SP, YR	•		Permit Number:	Permit Number: NA			
	Current Weather Condition	ons: Sunny L	at .	Weather Conditi	ons for Past 7 days: Sun	my hat		
	Photo Ids: Upstream: 5	Dow	nstream: 니	S Other	:47 (tractor) 40	(outfall		
Us	es Observed*:	to shows be	rbid w	re fence a o	ld fence, beet ca	n-trush)		
	☐ Swimming	☐ Skin diving	□ sc	CUBA diving	☐ Tubing	☐ Water skiing		
	☐ Wind surfing	☐ Kayaking	□Во	oating	☐ Wading	☐ Rafting		
	☐ Hunting	☐ Trapping	□ Fis	shing	None of the above	☐ Other:		
	Describe: (include numbe	er of individuals recr	eating, frequ	iency of use, photo-	documentation of evidence	of recreational uses, etc.)		
•								
	rrounding Condition as of interest.)	s*: (Mark all that p	romote or in	npede recreational u	ses. Attach photos of evider	nce or unusual		
	☐ City/county parks	☐ Playgrounds	☐ MDC co	onservation lands	☐ Urban areas	☐ Campgrounds		
	☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway		
	☐ No trespass sign	▼ Fence	☐ Steep slo	ppes	Other: Agrizedy			
Ev	idence of Human Use	·*:						
	Roads	☐ Foot paths/prin	ts 🗆 I	Oock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sites		ire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
	& Other: Beer Ca	a but it	NA8	probably th	moun for o	Me road		

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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l age I wo –	Data Si	icet D 101	Ψ <u>υ</u> υ	·			
, Stream Mor	phology	7:	site 6	52			
Upstream	View F	hysical Di	mensions:				
☐ Riffle	Width (	t):	Length (ft):	Avg.	Depth (ft):	Max. Depth (	ft):
`\\\Z\'Run	Width (	ft): <b>5</b>	Length (ft): 3	O Avg. 1	Depth (ft): 0,3	Max. Depth (	ft): <i>].</i>
☐ Pool	Width (1	t):	Length (ft):	Avg.	Depth (ft):	Max. Depth (	ft):
Flow	Present?	☐ Yes	<b>™</b> No	Estim	ated (ft³/sec):		
Downstre	am Vie	w Physical	Dimensions:	There is	a depetion	pool directly	under
☐ Riffle	Width (1	t):	Length (ft):	Avg.	Depth (ft):	Max. Depth (	ft):
Run	Width (1	t): (p	Length (ft):	O Avg. 1	Depth (ft): /	Max. Depth (	ft): 1.0 1.5
☐ Pool	Width (1	t):	Length (ft):	Avg. 1	Depth (ft):	Max. Depth (	ft):
<b>∀</b> Flow	Present?	☐ Yes	No	Estim	ated (ft³/sec):		
	,						
			dd up to 100%.)	0/ 01	0/ 0:14	86 7-8-05	0/ Dadasala
9	6 Cobble	L 10 %	Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
	Jrasses	e at ea	lge of wod	<b>✓</b>			
Water Char	acterist	ics*: (Mark	all that apply.)				
Odor:		☐ Sewage	☐ Musky	☐ Chemical	None	☐ Other:	
Color:		☐ Clear	☐ Green	☐ Gray	Milky/C	Journal Other: 600	unkreen
Bottom De	posit:	□ Sludge	☐ Solids	☐ Fine sedin	, A	Other:	//
Surface De	posit:	□ Oil	☐ Scum	☐ Foam	None	☐ Other:	
*This informaticomprehensive decision on the I, the unders datasheet is	on is not t understan recreation	o be used solding of water use analysis	ely for removal of a conditions. Conse but may point to co	recreational use quently, this info anditions that nee of my knowled	designation but rathermation is not intended further analysis or	terviews) to this former is to provide a more ded to directly influent that effect another us	e ce a e.
Signed:	han	Ine	dugast	Da	te: 7-8-C	))	
Organization	:70	tal	ech	Po	osition: Scie	156	
	V	11/1/1	1/5/0				





0079\_652\_Others



